

FIG. 1A

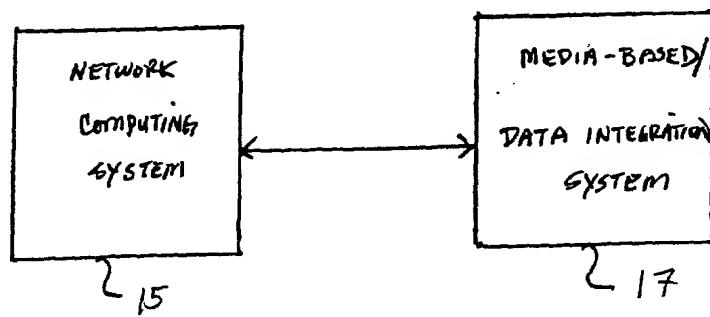
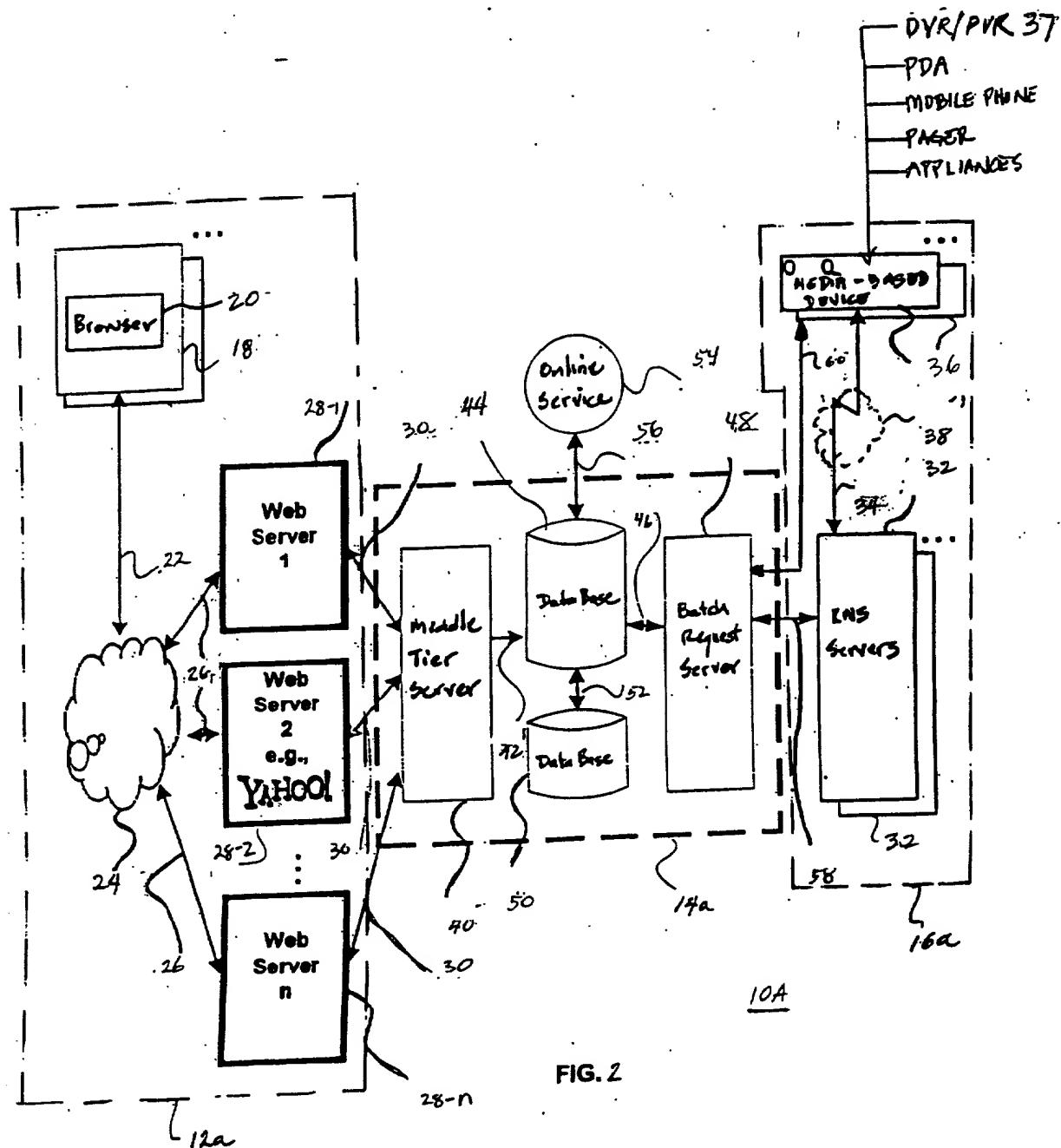


FIG. 1B



18/28/40/32/48/36

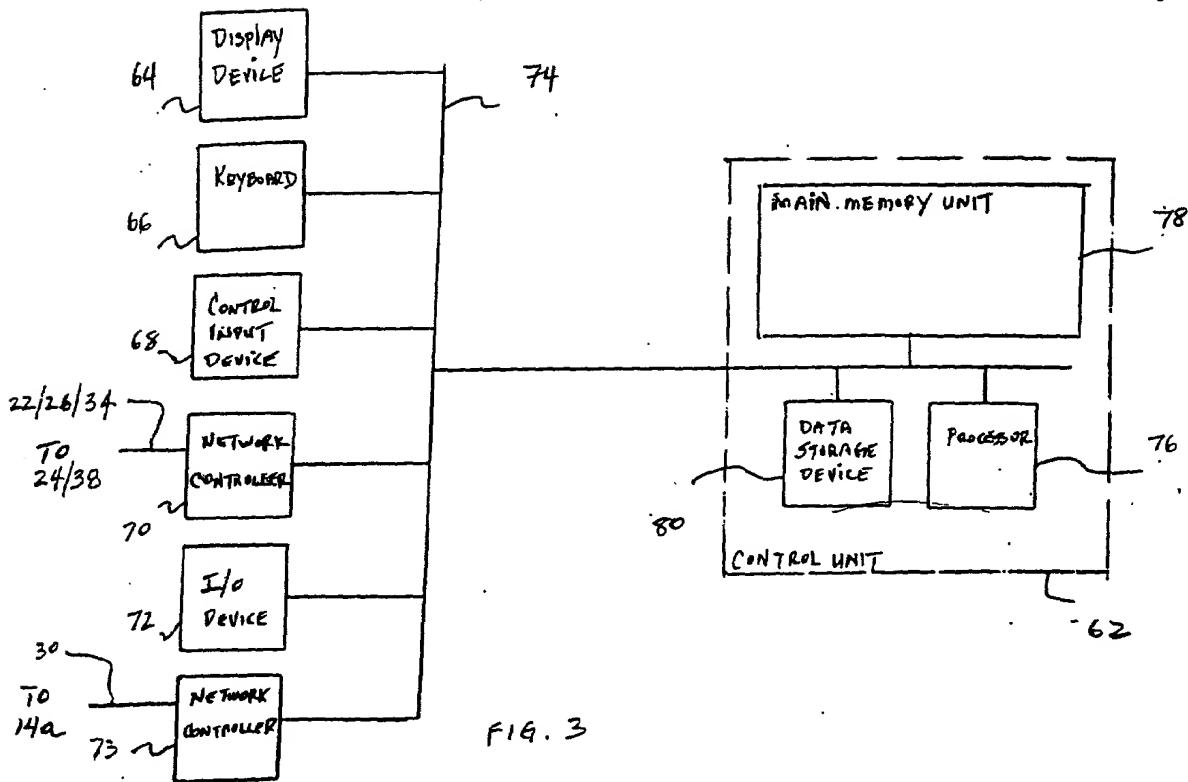


FIG. 3

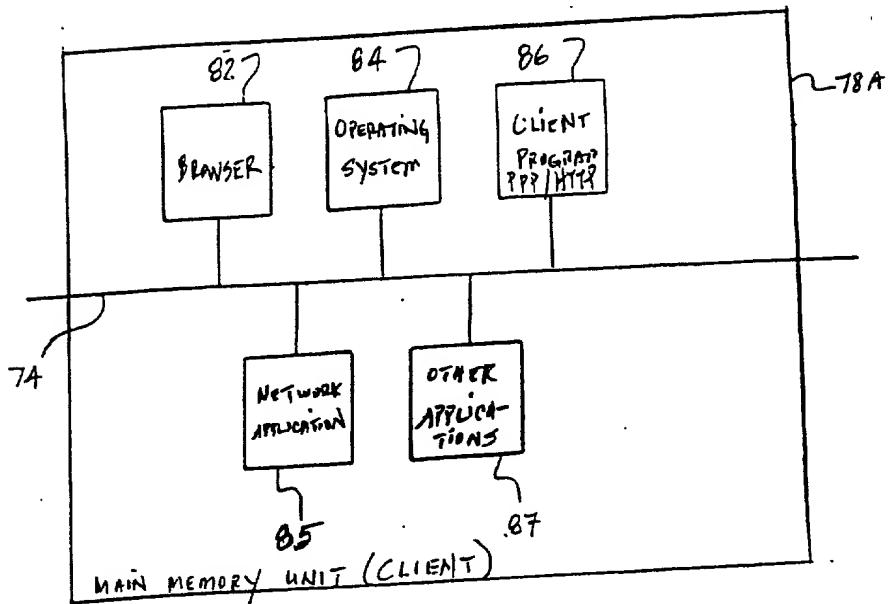


FIG. 4A

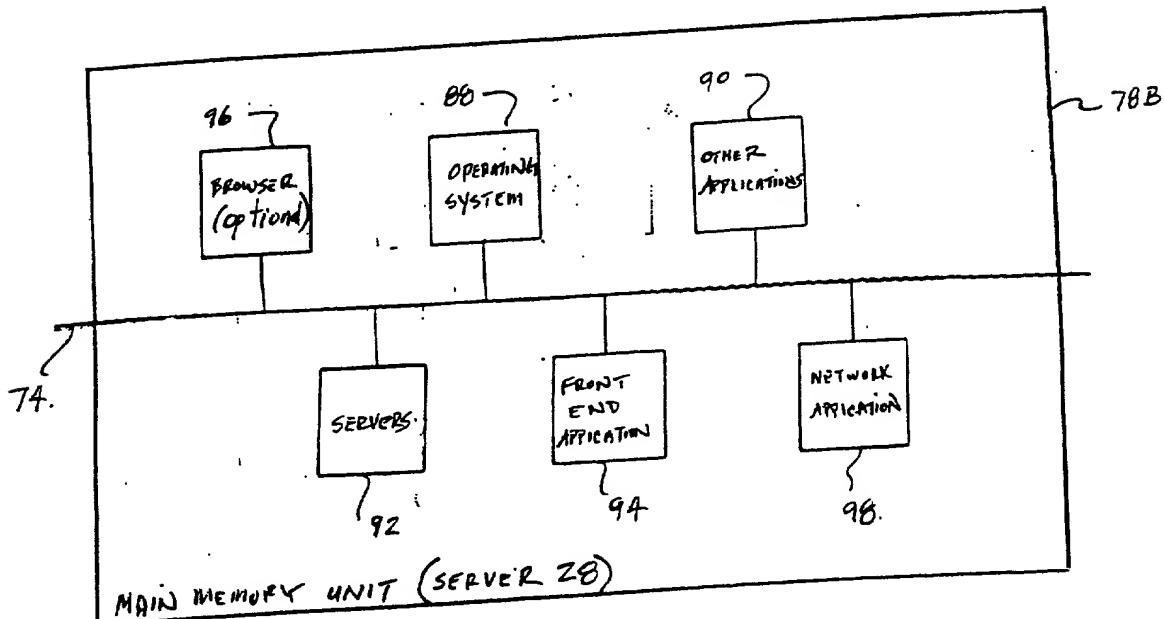


FIG. 4B

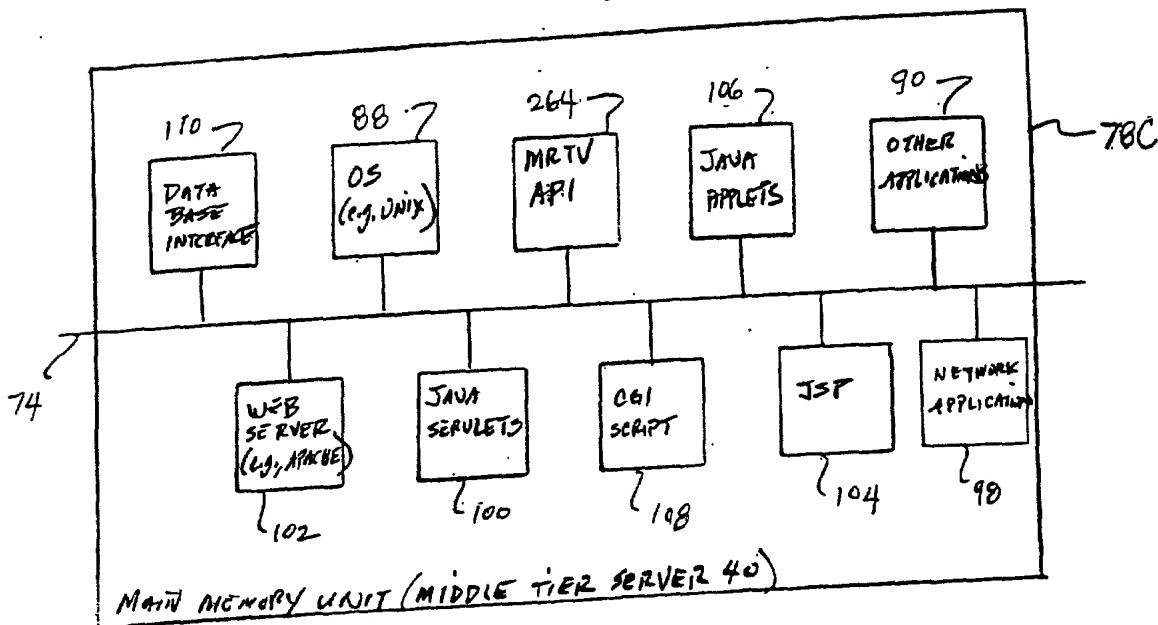


FIG. 4C

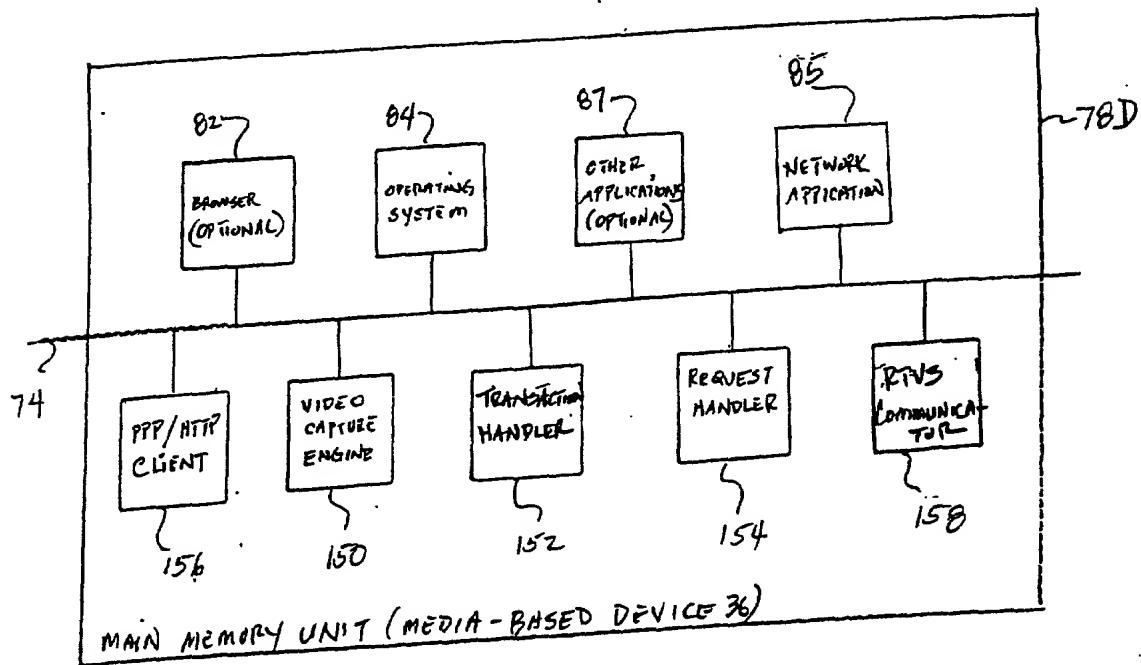


FIG. 4D

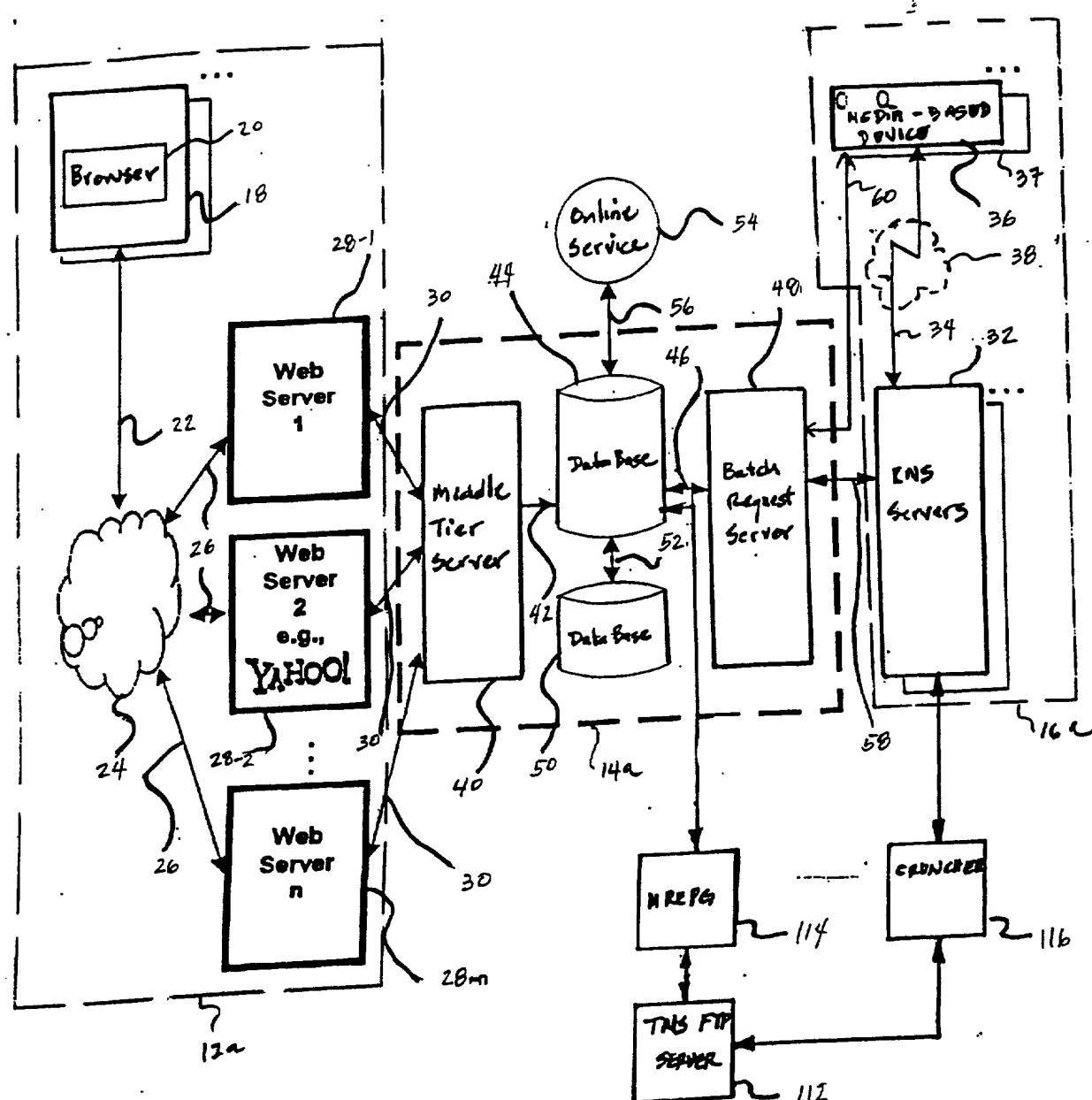


FIG. 5

10B

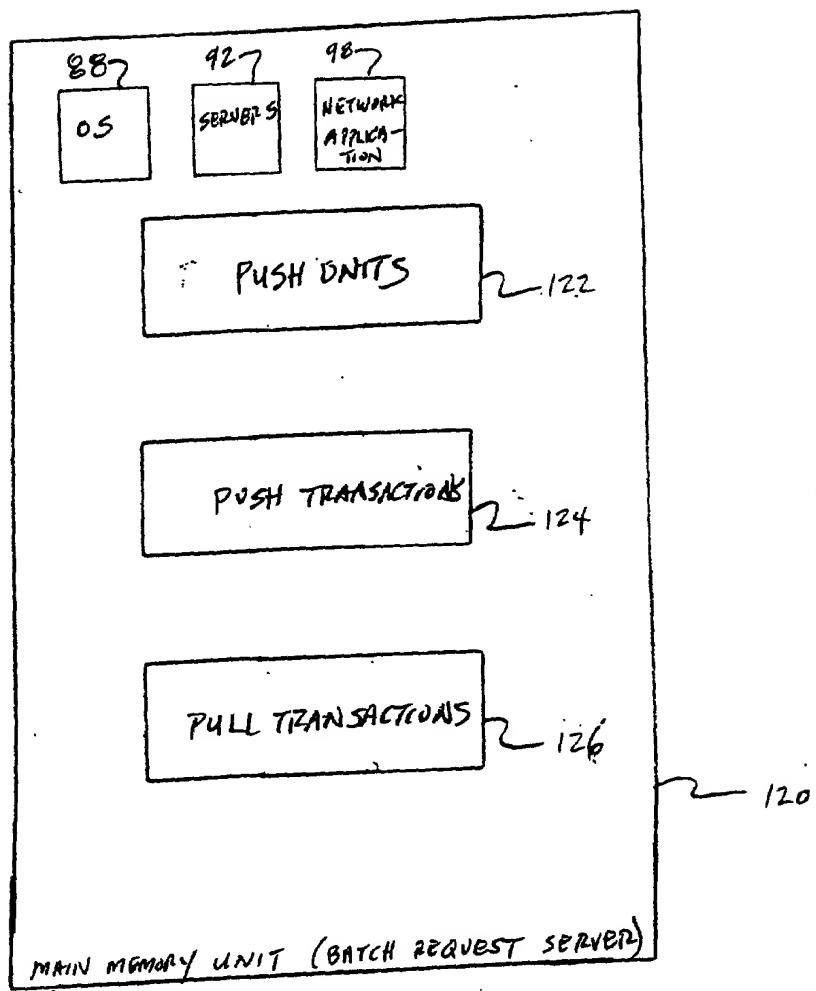


FIG. 6

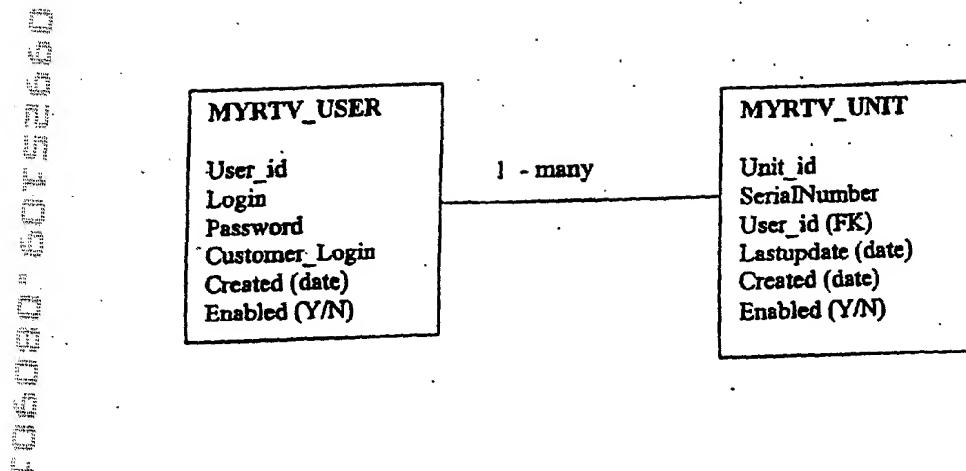


FIG. 7

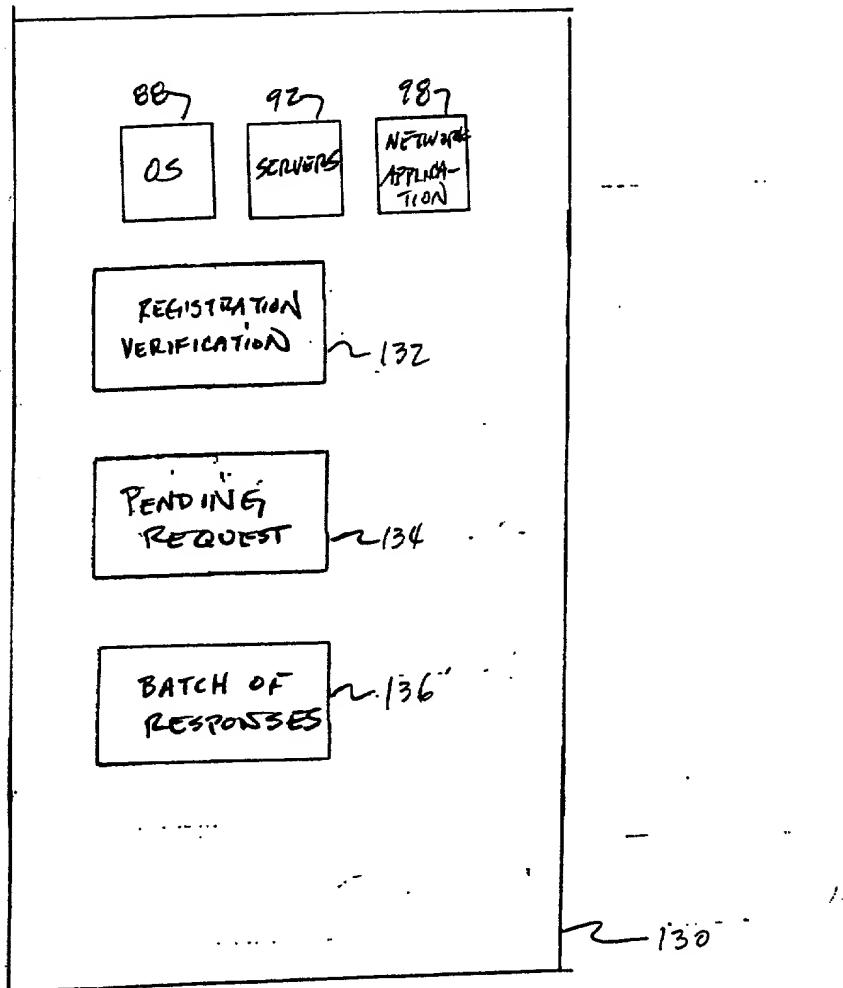


FIG. 8

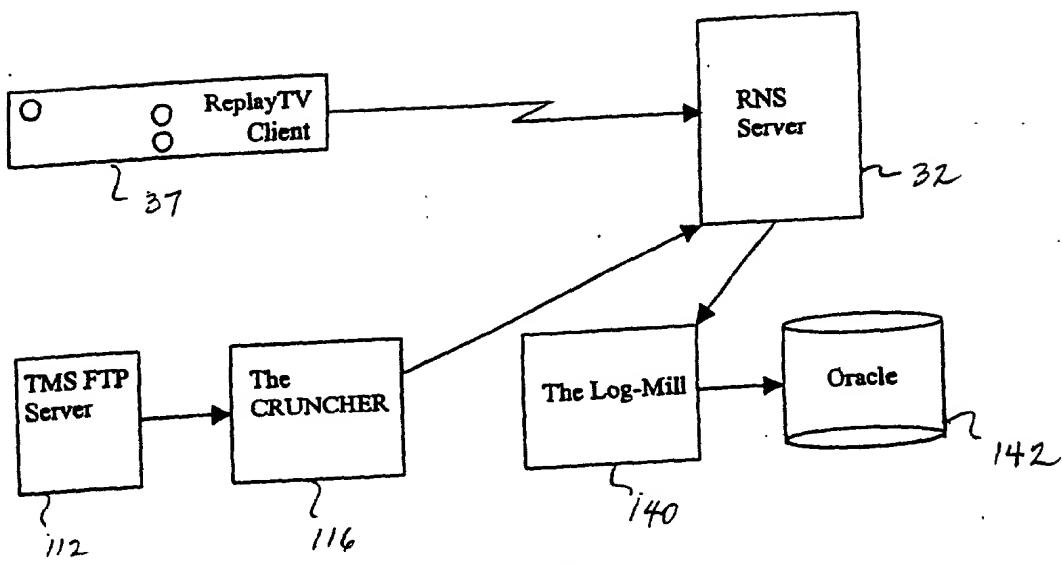
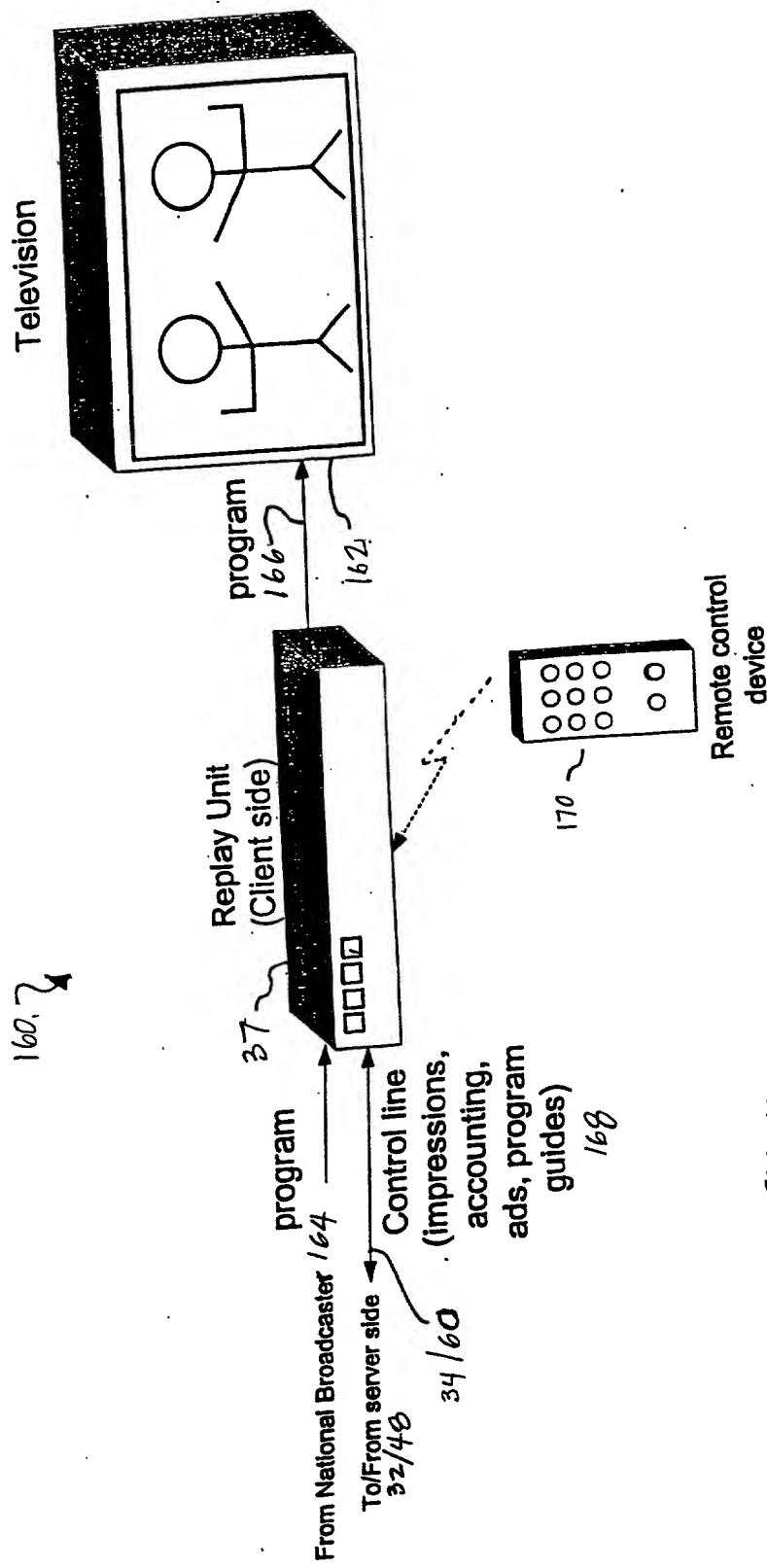


FIG. 9



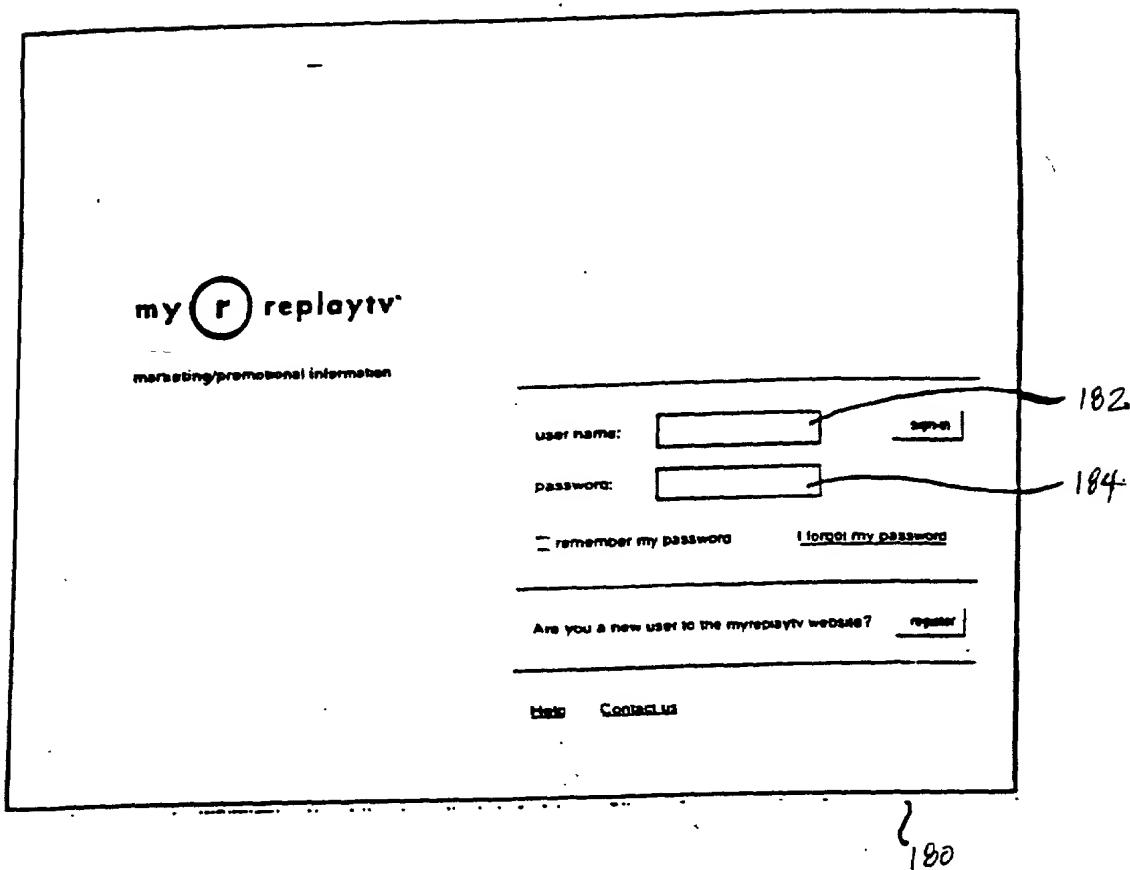


FIG. 11

Fig. 12A

View description	2 KTVU	yesterday 8/17	4 pm	1-15
Record	4 KRON	today 8/18	5 pm	16-30
Record all episodes	5 KPIX	Sat 8/19	6 pm	31-45
Record - change options	6 KAM	Sun 8/20	7 pm	46-60
Find all episodes	7 KGO	Mon 8/21	8 pm	61-75
Close	8 KRCB	Tue 8/22	9 pm	76-90
	9 KOED	Wed 8/23	10 pm	91-105
	10 KDTV	Thu 8/24	11 pm	106-120
	11 KICU	Fri 8/25	12 am	121-145
	12 KSHK			146-
	13 KBWB			15
	14 CNN			216
	15 DISN			
	16 CW			

218 ~

222 ~

220 ~

212 ~

212 ~

214 ~

210 ~

FIG. 12B

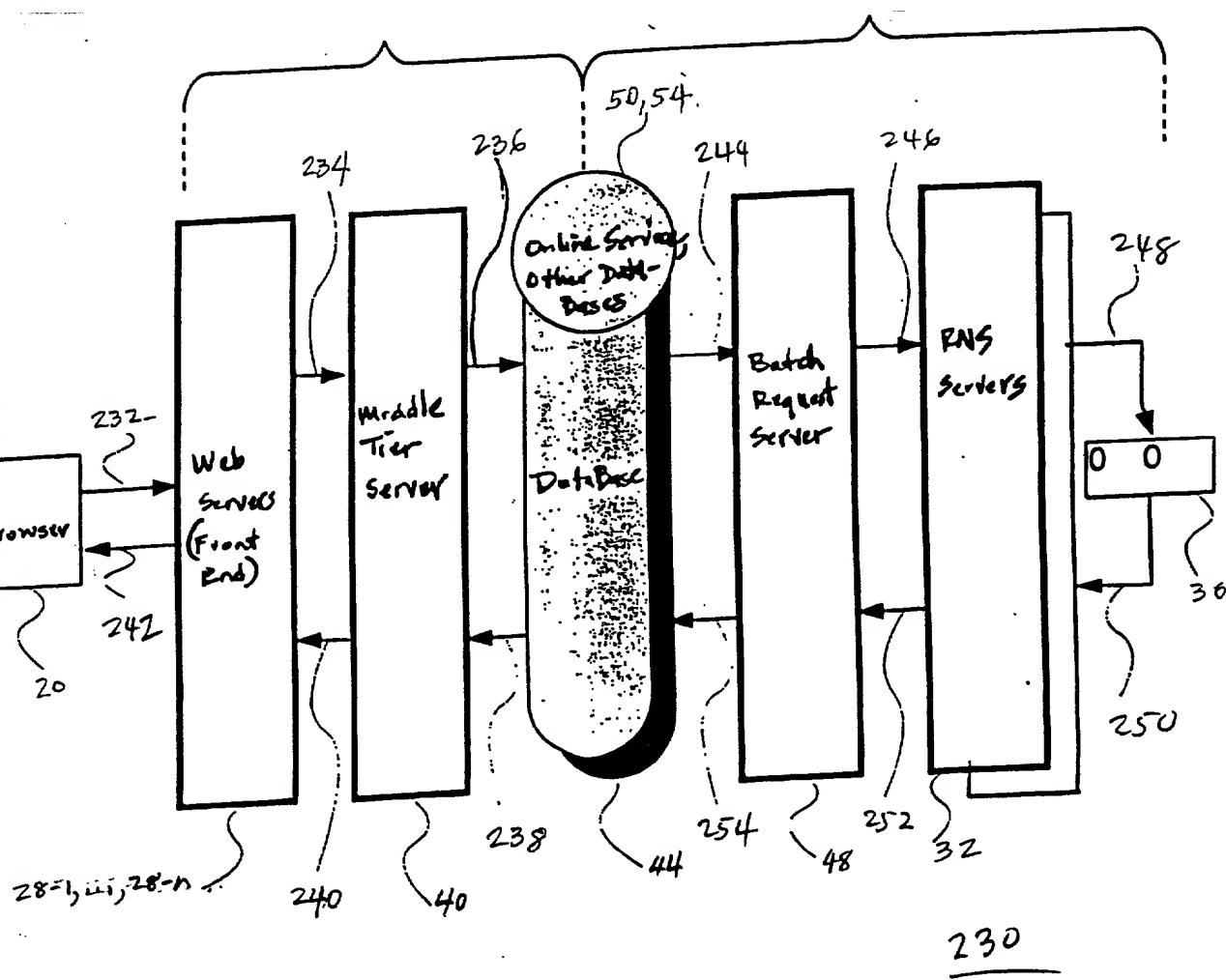


FIG. 13A

SEQUENCE DIAGRAM

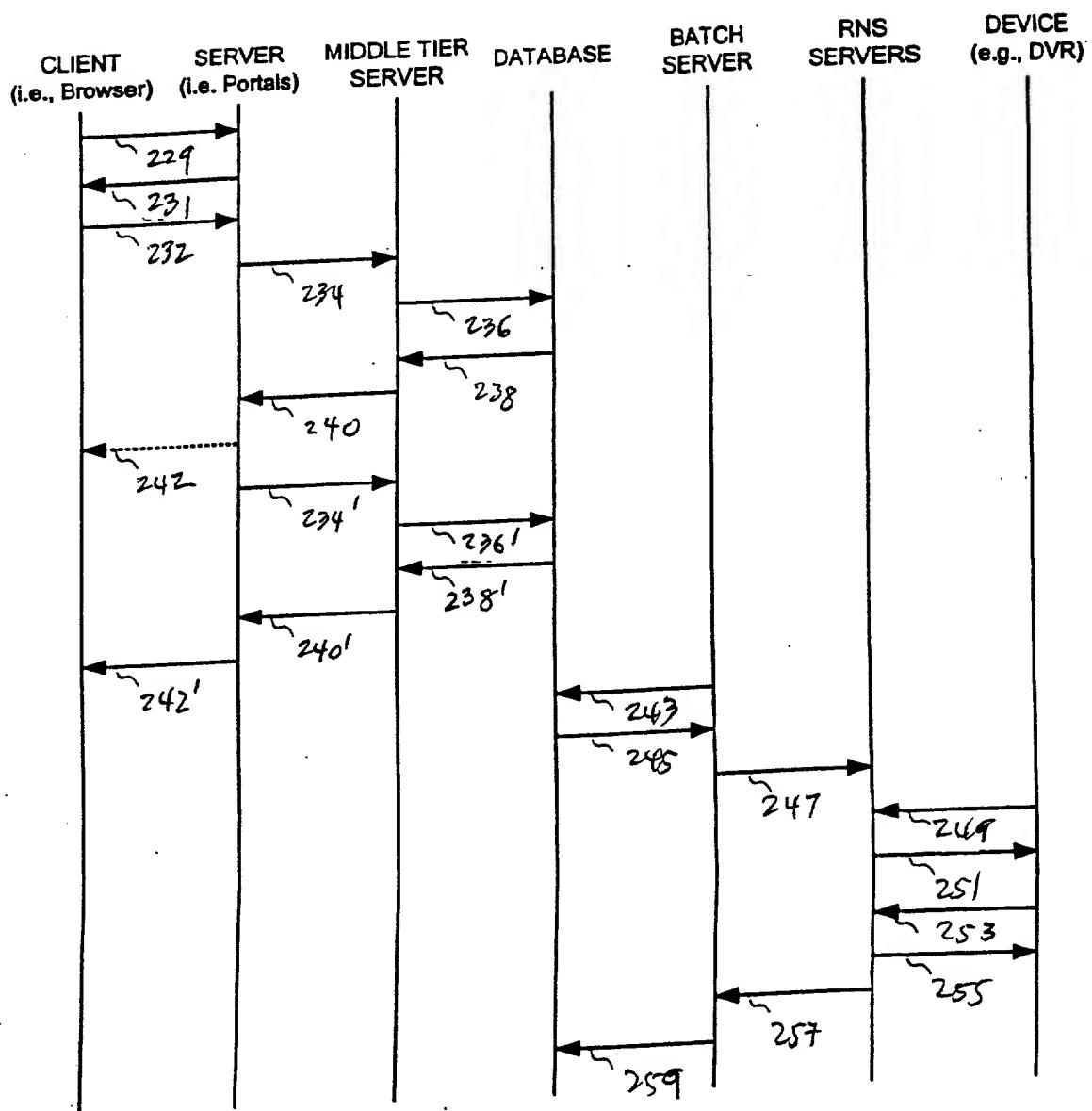


FIG. 13B

API Routine	Function
CreateAccount	Creates an account for a new user based on the information received
Login	Tries to authenticate a user based on the input username and password combination
GetProfile	Returns the profile of the user and his units based on his userid
AddRequest	Adds a request to the unit's list of pending requests based on a set of request parameters, and returns the full status of the unit and of the pending requests, including those for recording specified show(s) and deleting recorded show(s)
DeleteRequest	Delete a request from the user list of pending requests
GetReplayGuide	Returns the Replay Guide of the unit as saved in the appropriate database for the specified unit
GetChannelLineUp	Returns the channel lineup of the unit based on the unit's settings
ChangePassword	Lets the user changes his password
GetEPG	Returns the current electronic program guide for the unit based on the settings of the unit
ShowGuide	Returns detailed information about a specified show or search show details for particular shows based on criteria given as parameters

FIG. 14

API Routine	Input Parameters	Output Files (Corresponding XML elements)
CreateAccount	firstname, lastname, address1, address2, city, state, zipcode, serialnumber, login, password, creator	ACCOUNT.XML REPLAYERROR.XML
Login	login, password	ACCOUNT.XML REPLAYERROR.XML
GetProfile	userid	PROFILE.XML (USERINFO, UNITINFO-1) REPLAYERROR.XML
AddRequest	userid, unitid, reqtype{none, show, theme, update} reqtype=show: showtype(single, repeat, manual single, manual repeat), headendid, tmsid, device, starttimgmt, name, durationinminutes, inputsource, quality, guaranteedrecord, numepisodes, weekdayflags, earlystartminutes, showguarminutes reqtype=theme: searchterm, searchflags, suzukid, durationinminutes, quality, guaranteedrecord reqtype=update: updatetype(deleteshow, preserveshow, deletetchannel), channelid, showid	UNITSTATUS.XML (UNITINFO, REQUESTSTATUS-1) REPLAYERROR.XML *Note: REQUESTSTATUS Result:=(PENDING, SENT, SUCCESS, GENERAL FAILURE, SCHEDULEFAILURE, ROOMFAILURE)
DeleteRequest	userid, unitid, requestid	DELETERESULT.XML REPLAYERROR.XML
GetReplayGuide	userid, unitid	GUIDE.XML (REPLAYCHANNEL-1) REPLAYERROR.XML *Note: REPLAYCHANNEL Type:=(SINGLE, SINGELMANUAL, REPEAT, REPEATMANUAL, THEME, THEMEEACT, ZONE) CHANNELLINEUP.XML (CHANNEL-1) REPLAYERROR.XML
GetChannelLineUp	userid, unitid	ACCOUNT.XML REPLAYERROR.XML
ChangePassword	userid, currentpassword, newpassword	REPLAYERROR.XML XML file based on tvguide.dtd & tvprograms.dtd
GetEPG	userid, unitid, starttimgmt, durationinminutes, startchannel, channelcount	REPLAYERROR.XML XML file based on tvguide.dtd & tvprograms.dtd
ShowGuide	userid, unitid, query, start, count, levelofdetail *Note: query keywords include actor, advisory, desc, mpaarating, title, etc.	REPLAYERROR.XML

FIG. 15

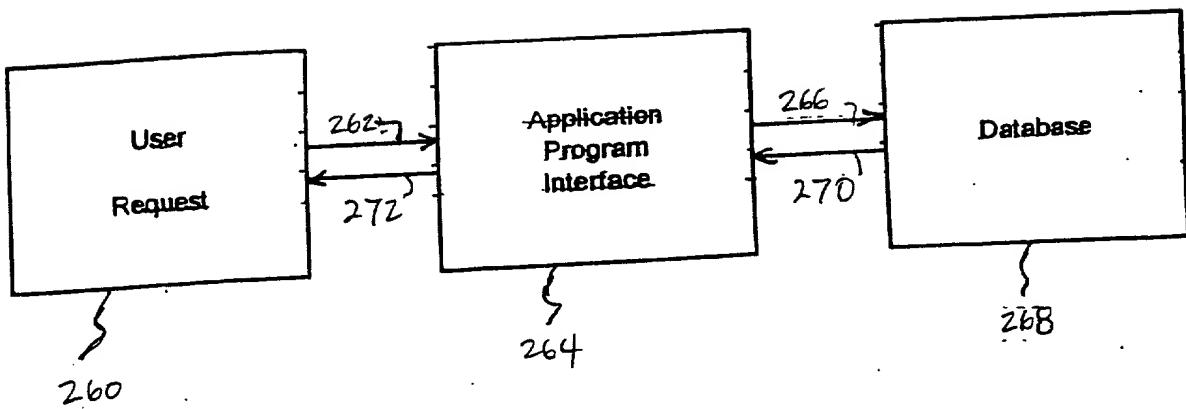
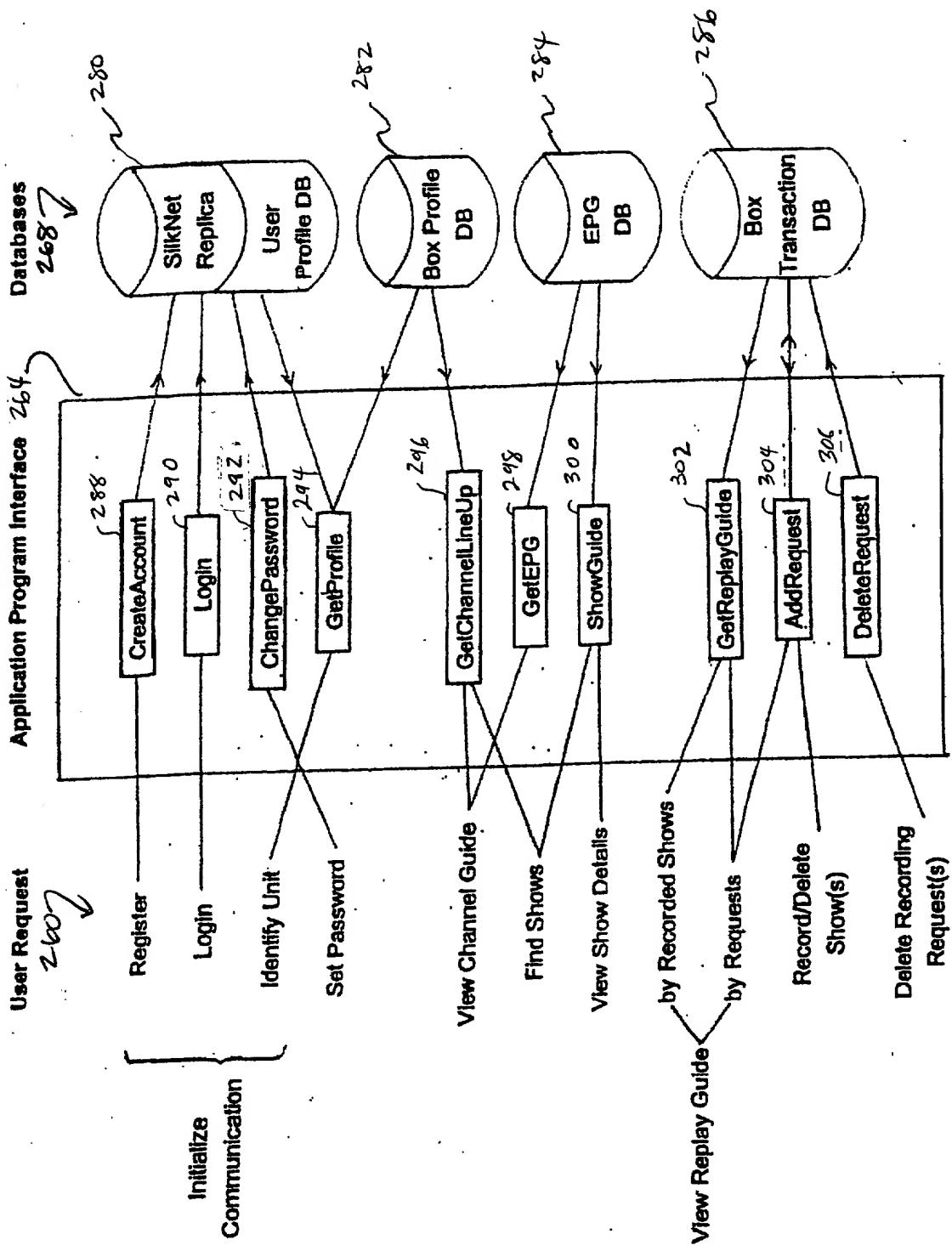


FIG. 16A



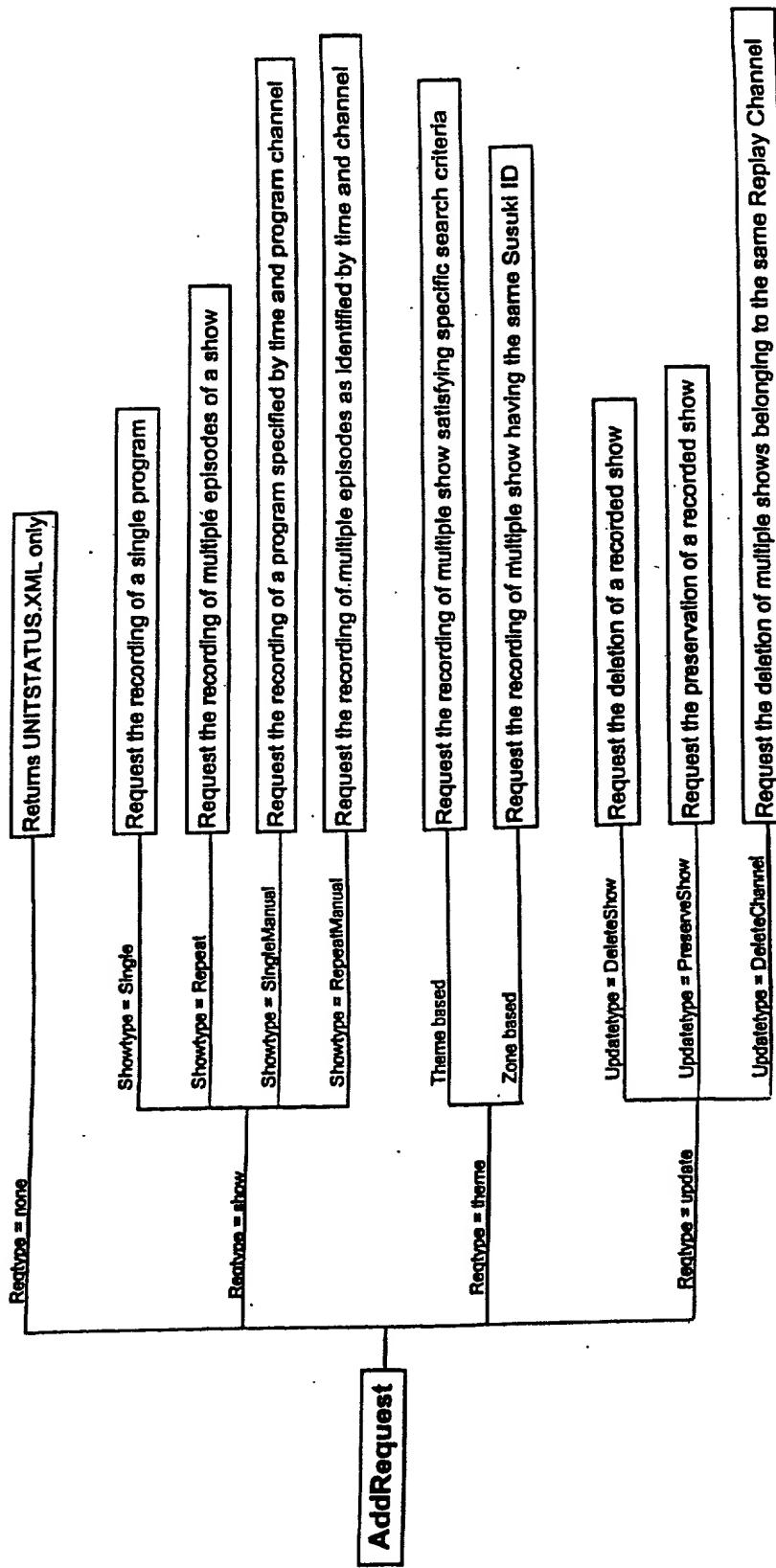


FIG. 17

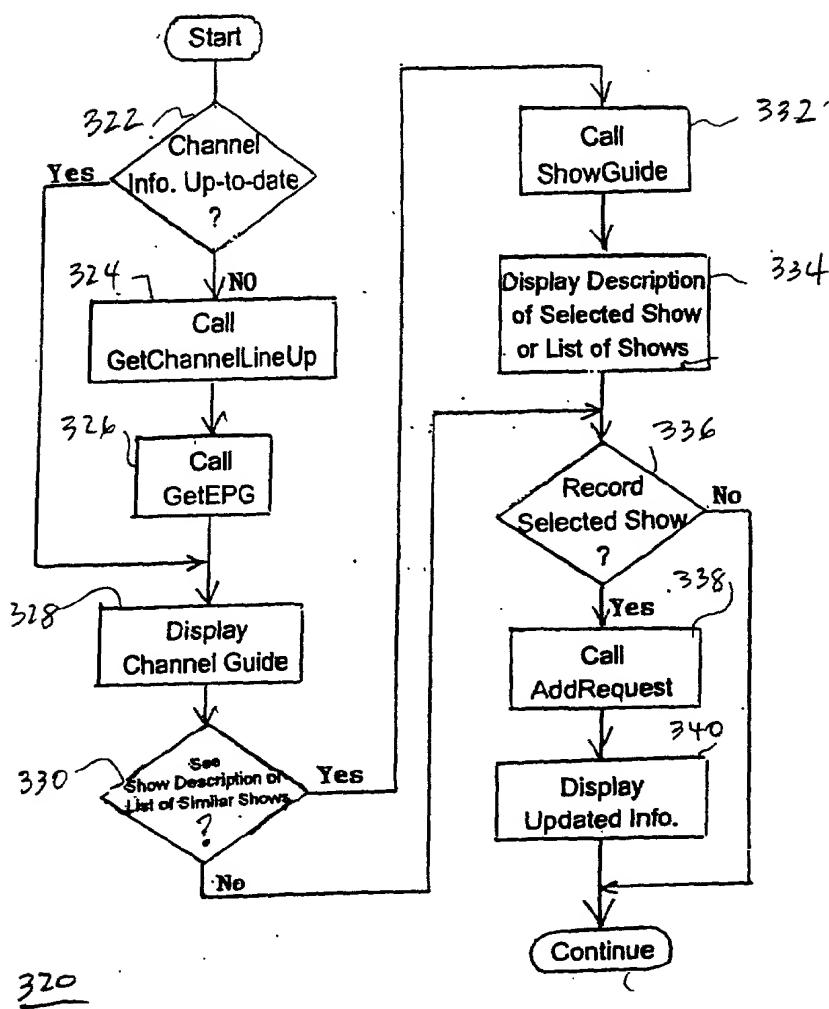
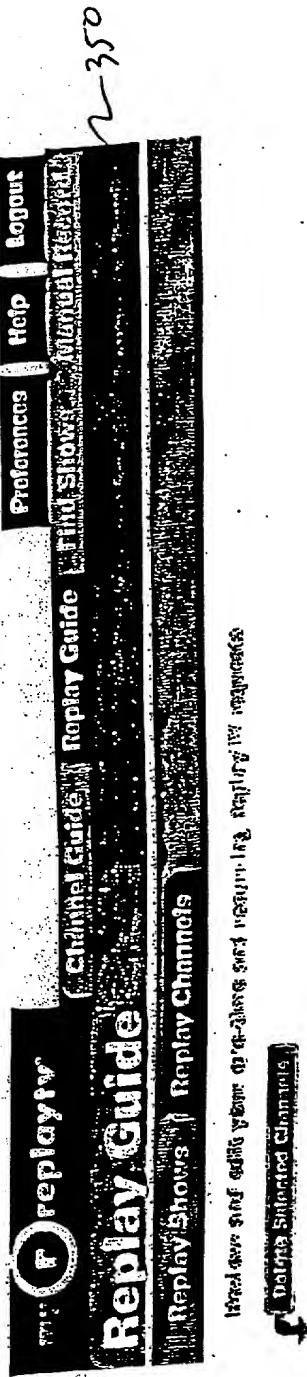


FIG. 18



Channel	Details	Status	Request Date
<input checked="" type="checkbox"/> A Fistful of Dollars	This single record Replay channel was scheduled to record A Fistful of Dollars from Channel 21(TBS) on Sun, 02/18 at or around 7:00AM - 9:00AM. Guaranteed at EXTENDED quality. Nothing else is scheduled to record.	01/16	02/18
<input type="checkbox"/> Blown Away	This single record Replay channel was scheduled to record Blown Away from Channel 42(USAP) on Tue, 01/16 at or around 9:00PM - 11:30PM. Guaranteed at EXTENDED quality. Nothing else is scheduled to record.	02/28	
<input type="checkbox"/> Cantoneese News	This show-based Replay channel will continuously record the 1 most current episode(s) of Cantoneese News occurring every (Sun, Mon, Tue, Wed, Thu, Fri, Sat) on Channel 8(KTSF) at or around 8:00PM - 9:00PM. Guaranteed at EXTENDED quality.		01/09
<input type="checkbox"/> Captain January	This single record Replay channel was scheduled to record Captain January from Channel 49(AMC) on Tue, 01/09 at or around 3:30AM - 5:00AM. Guaranteed at EXTENDED quality. Nothing else is scheduled to record.		

FIG. 19 A



Channel	Show Title/Episode	Date/Time	Station	Duration	Size
A Fistful of Dollars	<input type="checkbox"/> A Fistful of Dollars	02/18 7:00AM	21 TBS	(2h)	6.46%
Blown Away	<input checked="" type="checkbox"/> Blown Away	01/16 9:00PM	42 USAP	(2h 30m)	8.07%
Captain January	<input checked="" type="checkbox"/> Captain January	01/09 3:30AM	49 AMC	(1h 30m)	4.84%
Firewalker	<input checked="" type="checkbox"/> Firewalker	02/27 8:00PM	21 TBS	(2h)	6.46%
On Deadly Ground	<input checked="" type="checkbox"/> On Deadly Ground	01/07 9:00PM	4 KRON	(2h)	6.46%
Platoon	<input type="checkbox"/> Platoon	02/04 8:00PM	37 TNTP	(2h 30m)	8.07%
The Bridge on the River Kwai	<input checked="" type="checkbox"/> The Bridge on the River Kwai	12/24 8:00AM	42 USAP	(3h 30m)	11.30%
The Little Princess	<input type="checkbox"/> The Little Princess	12/26 4:15AM	49 AMC	(1h 45m)	5.65%
The Trouble with Harry	<input checked="" type="checkbox"/> The Trouble with Harry	12/18 1:05PM	49 AMC	(1h 55m)	6.19%
Welcome to ReplayTV	<input checked="" type="checkbox"/> Welcome to ReplayTV	09/08 10:49AM		(15m)	2.42%

FIG. 19B

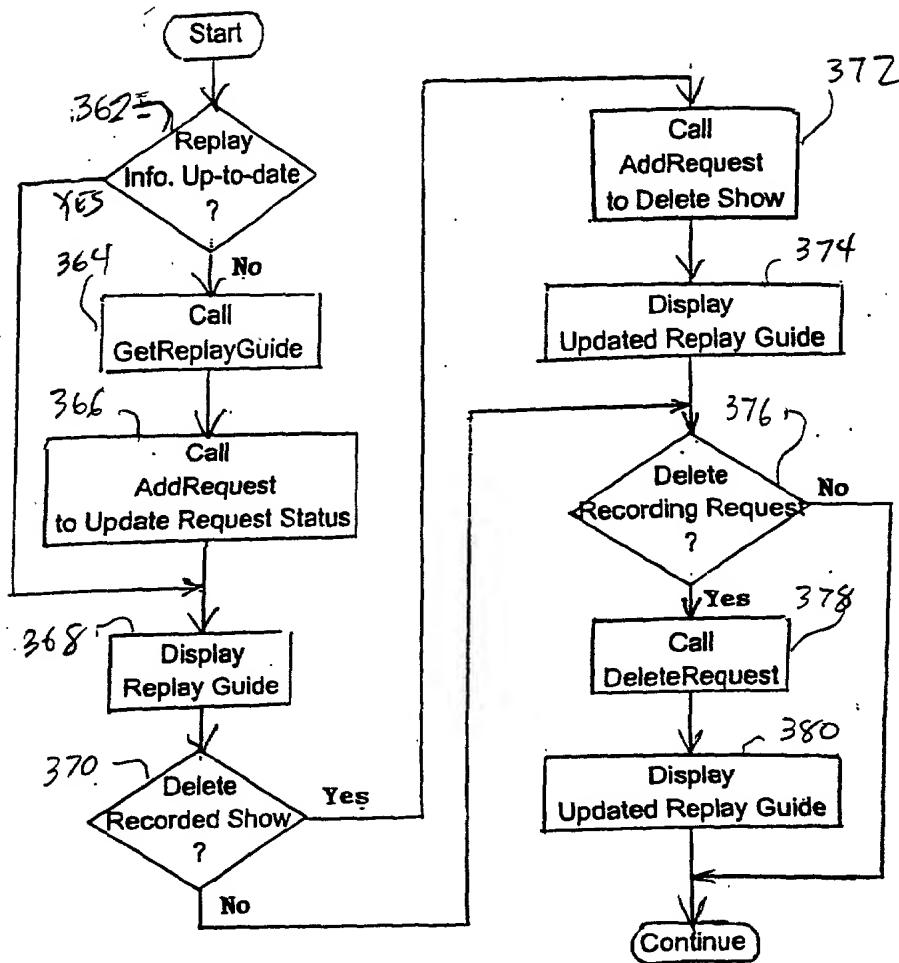


FIG. 20

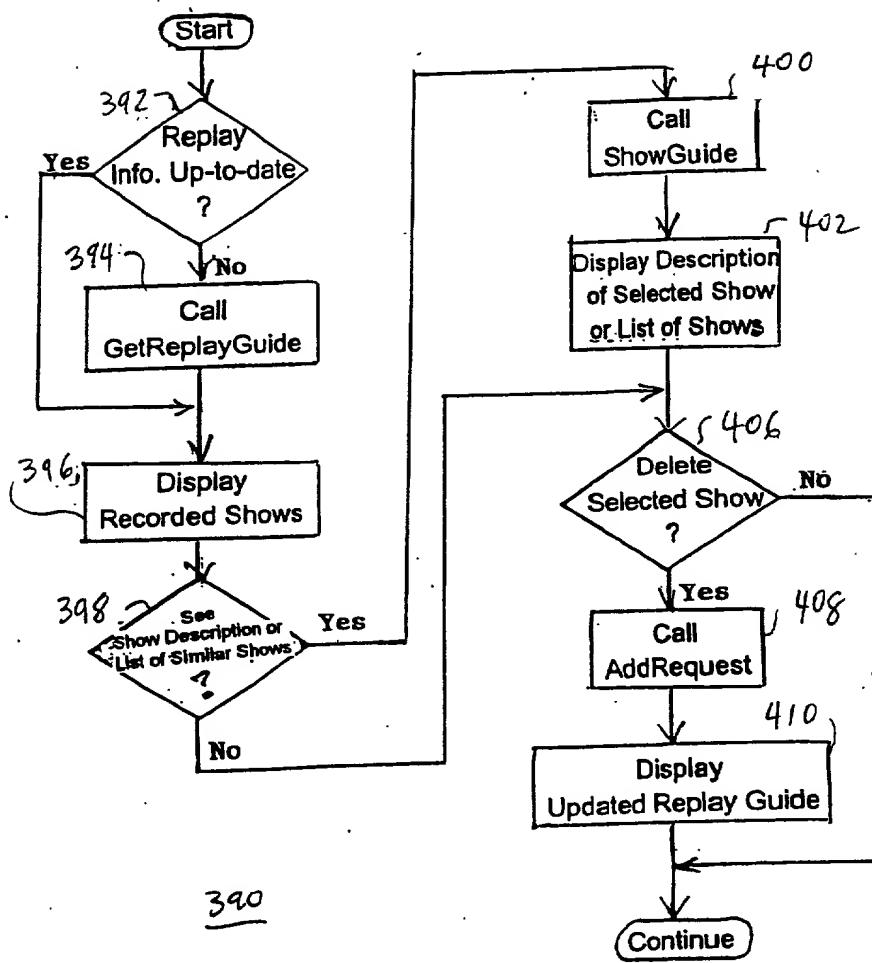


FIG. 21



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FIG. 22

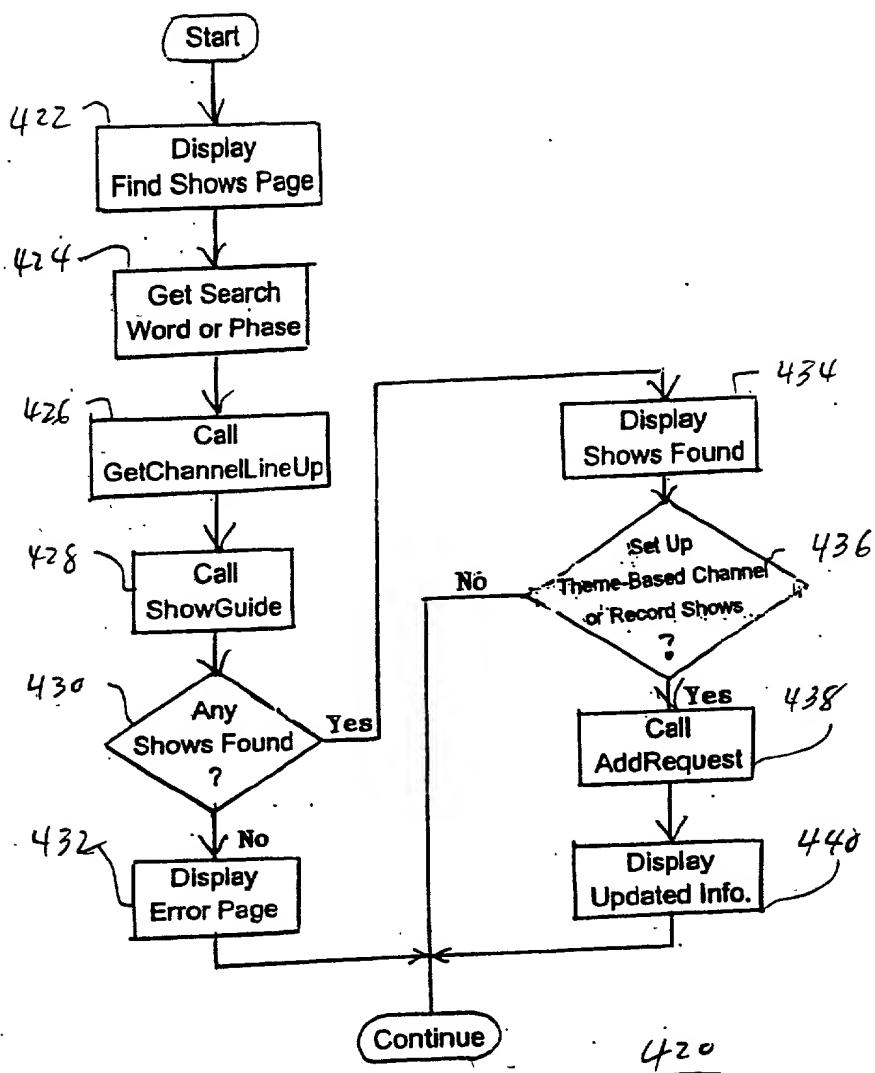


FIG. 23

myFReplaytv®

Channel Guide | Replay Guide | Shows | Manual Record

Manual Record

Single Recording | Repeat Recording

Start Date Recording duration:

Start Time : AM

End Time : AM

Channel

Quality

Guaranteed

Copyright Policy | Terms And Conditions | Privacy Policy | FAQ

450

FIG. 244

my  replaytv

Channel Guide Find Shows Manual Record **Replay Guide** preferences help logout

Manual Record

Single Recording **Repeat Recording**

Days Mon Tue Wed Thu Fri Sat Sun

Start Time : End Time :

Channel

Quality

Guaranteed

RECORD INFORMATION

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FIG. 24B

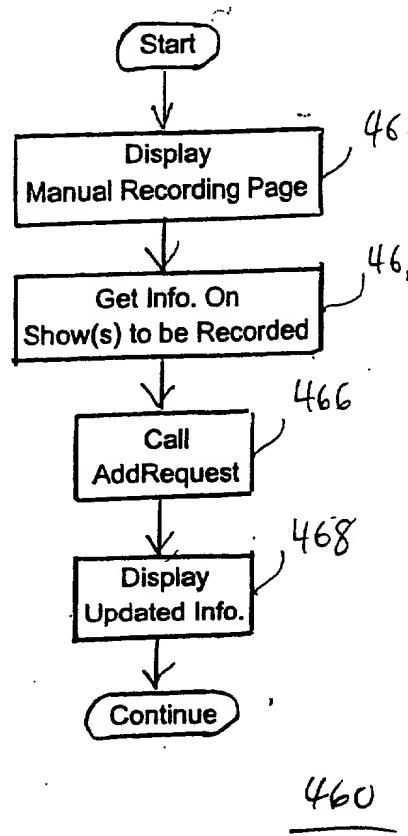


Fig. 25

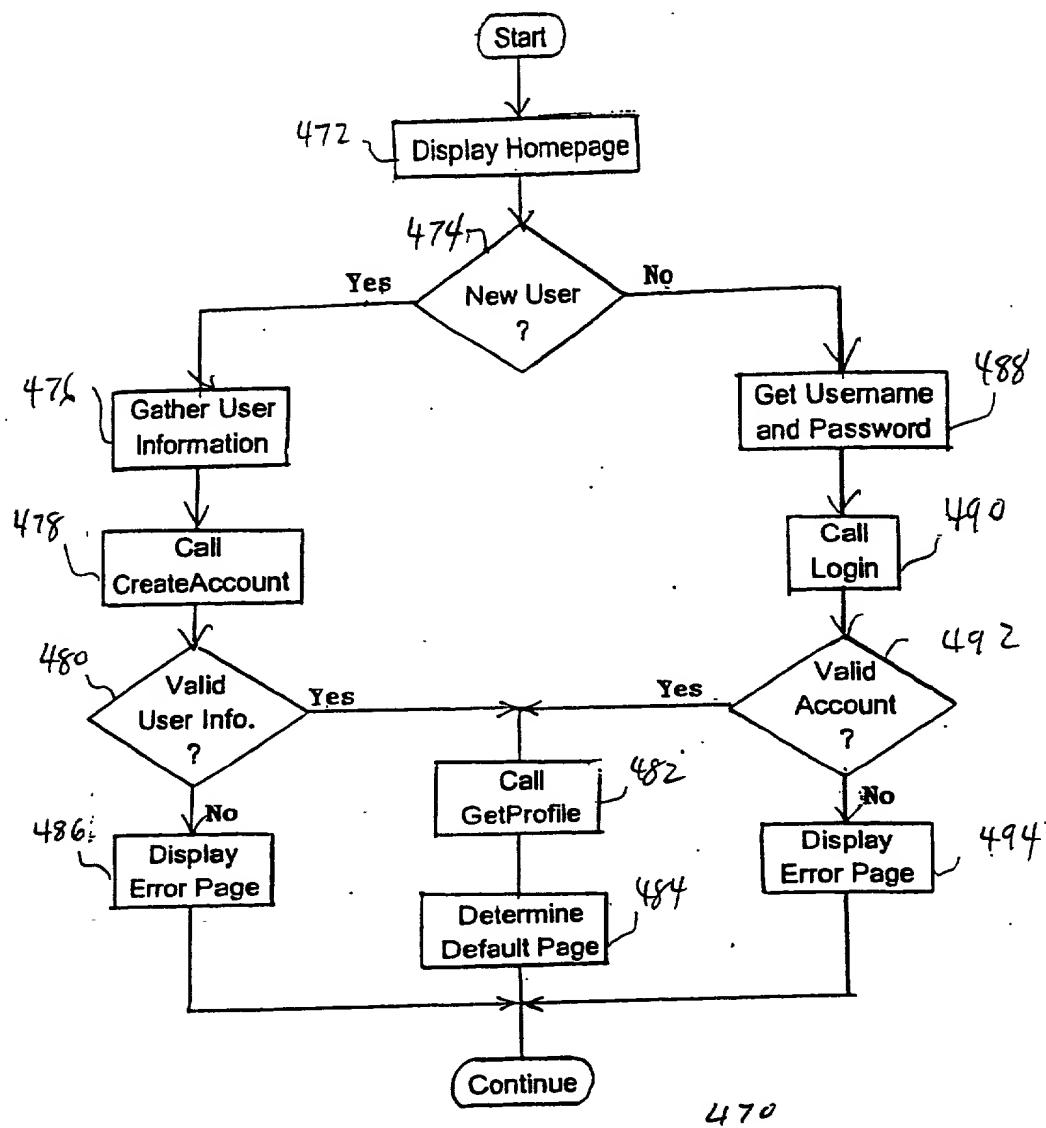


FIG. 26

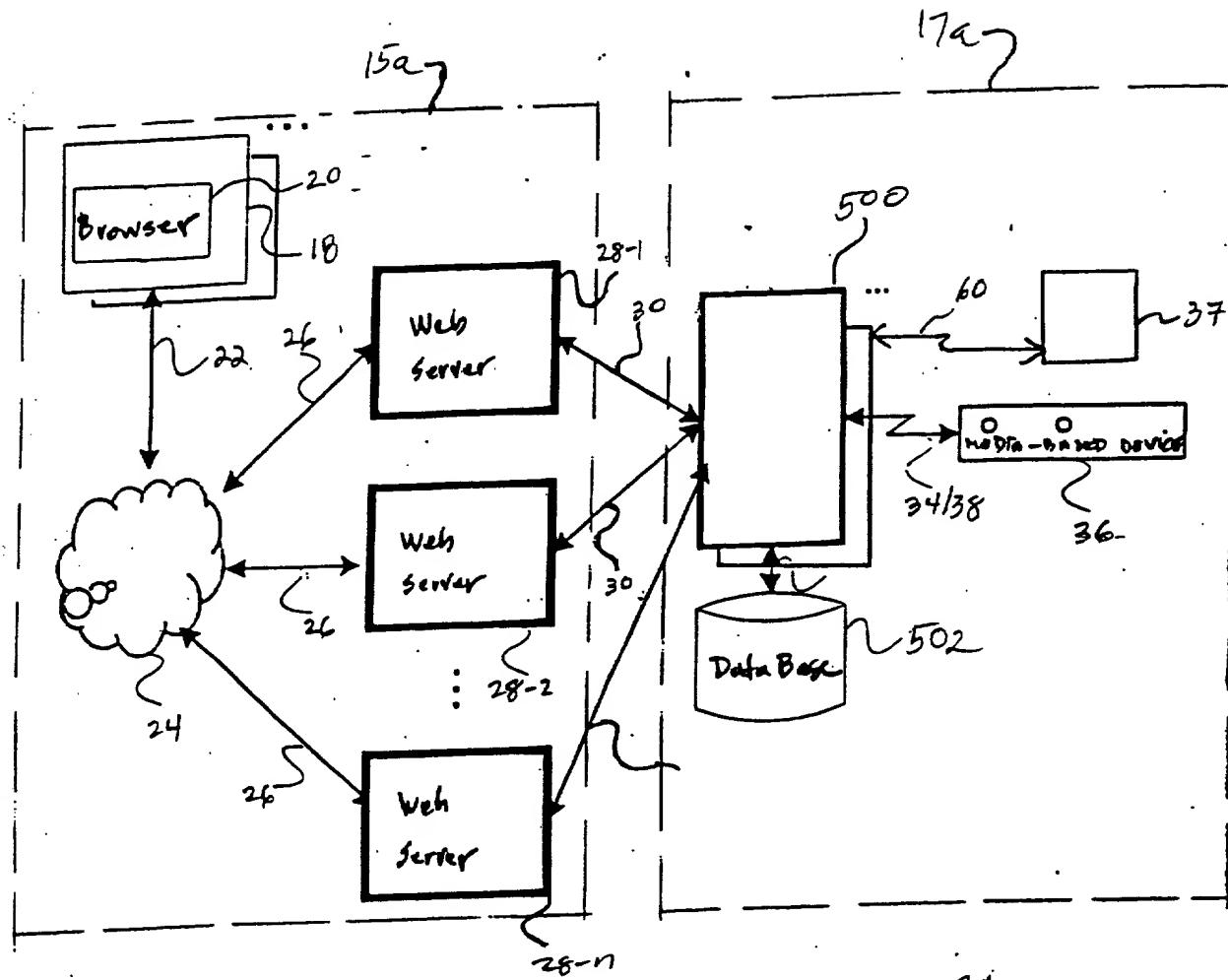


FIG. 27

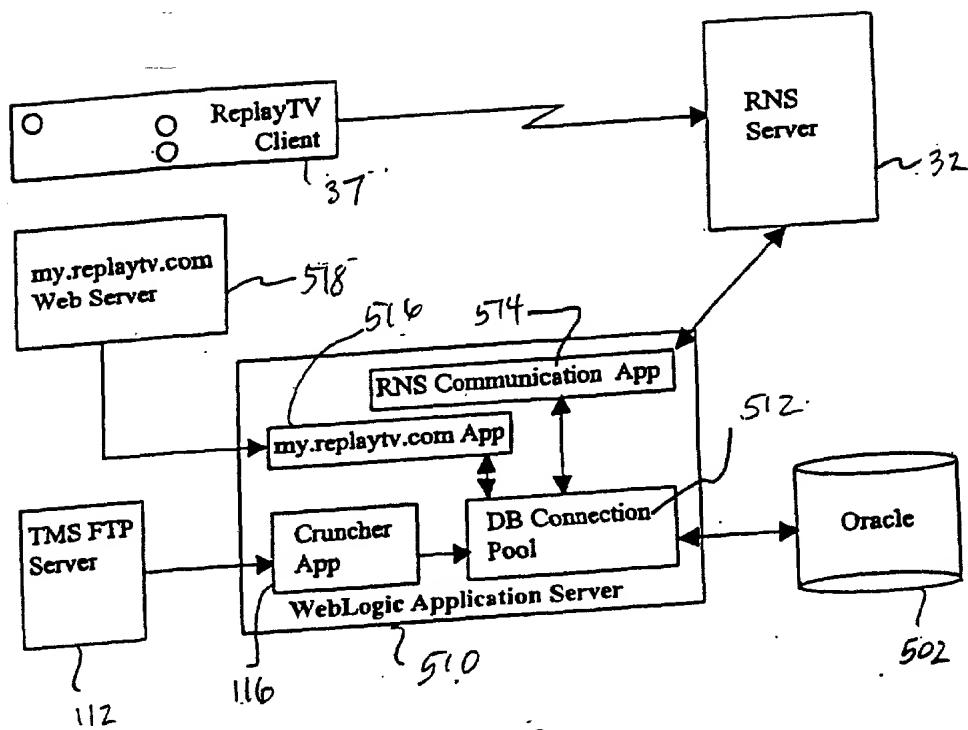


FIG. 28

17066390-6017-62660

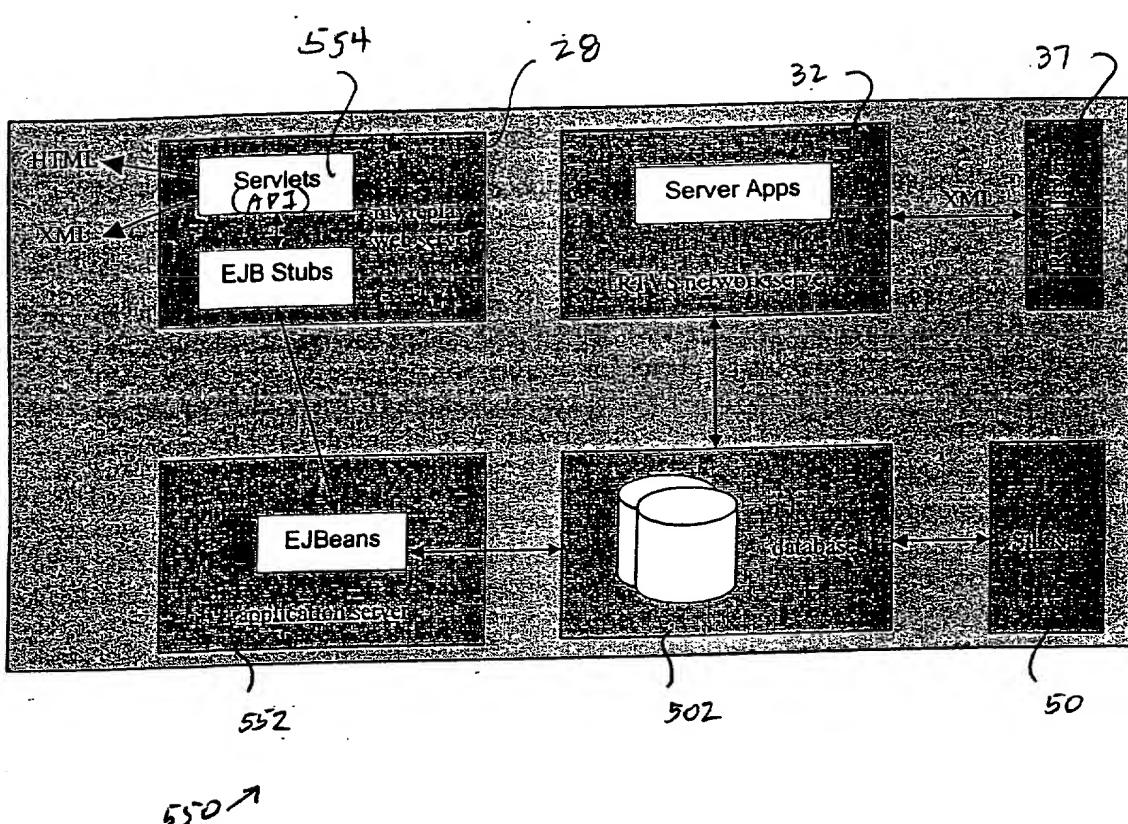


FIG. 29

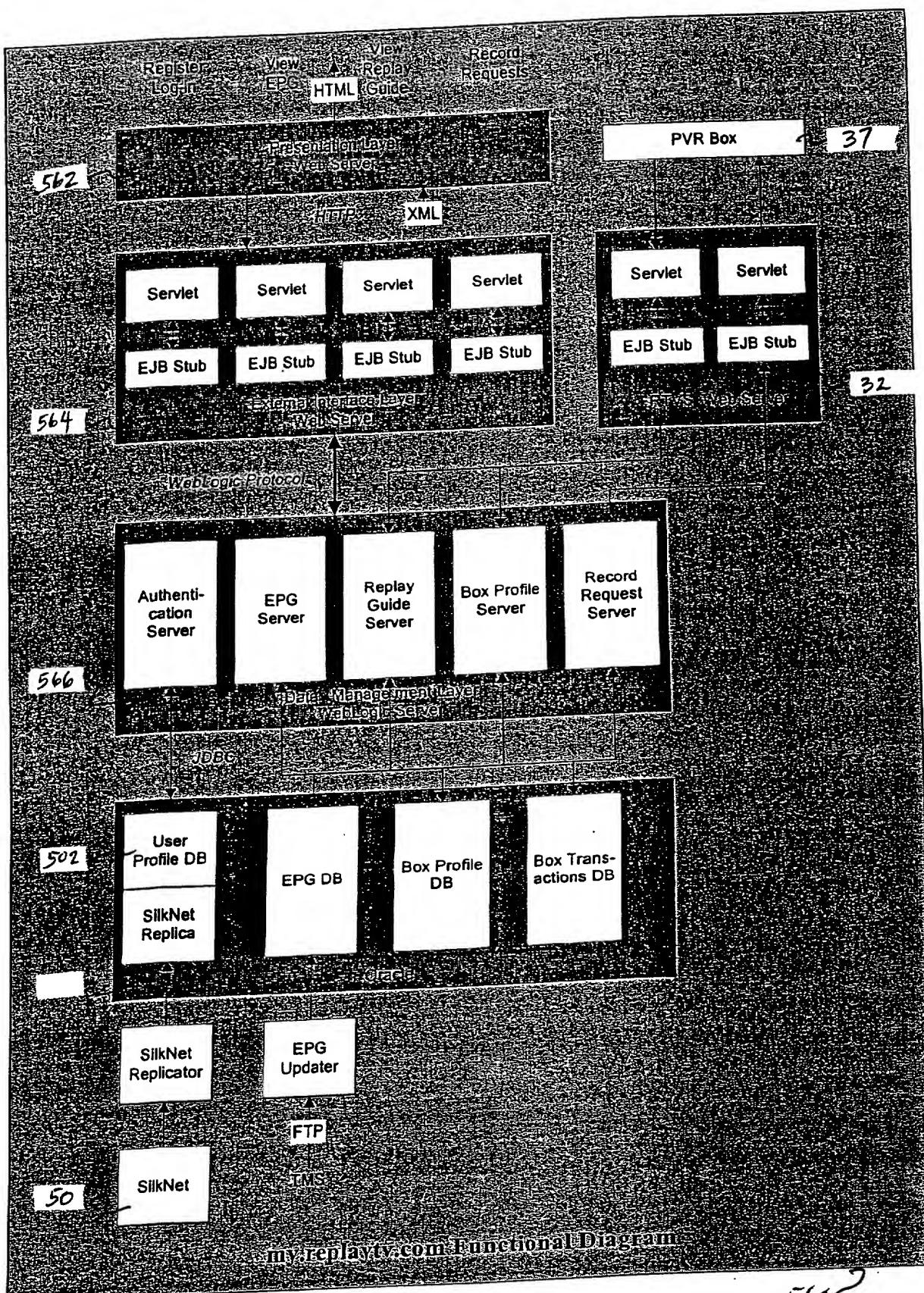


FIG. 30

560

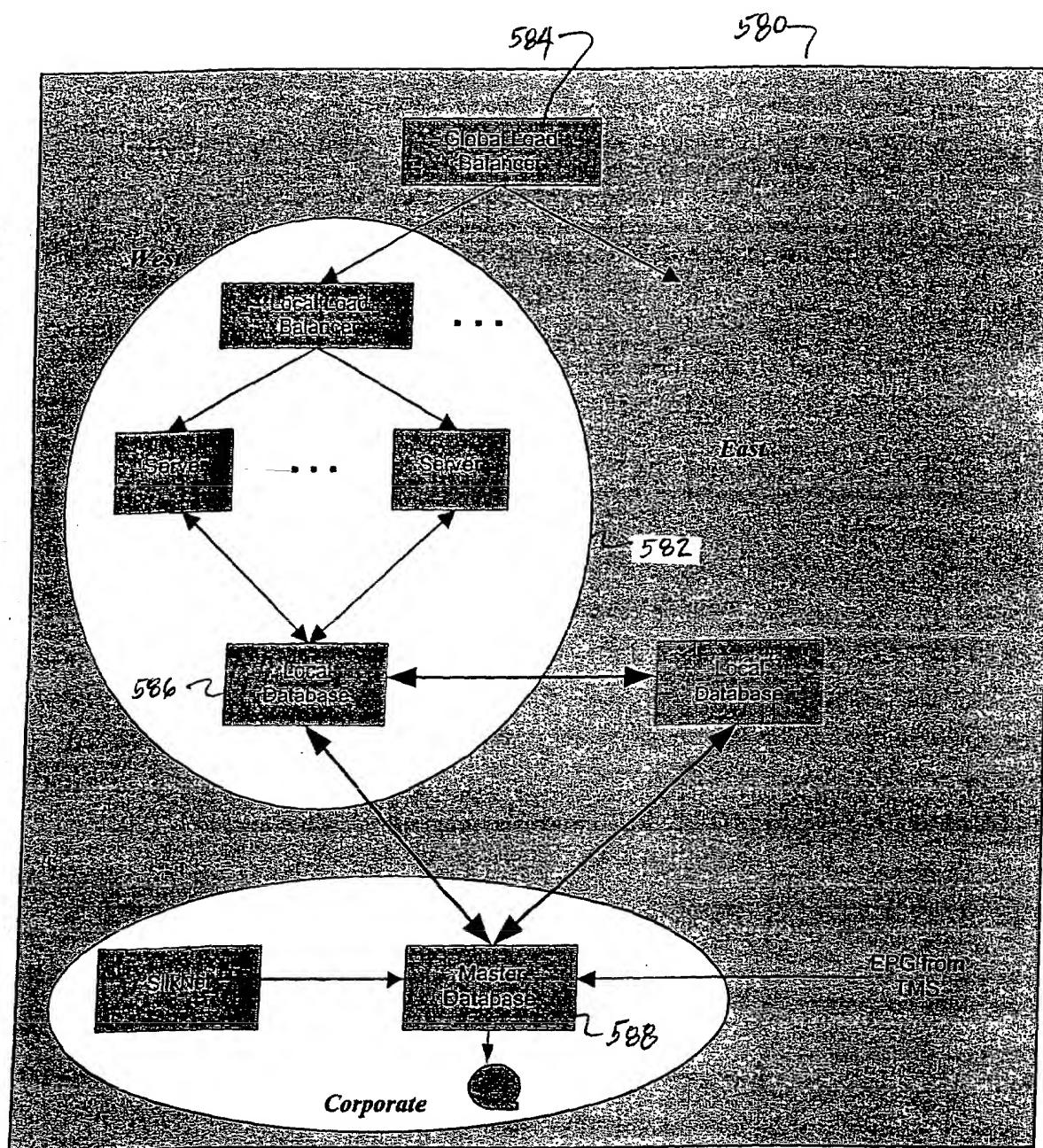


FIG. 31